



## 19<sup>th</sup> Annual Comparative Orthopaedics Day

Our 19th Annual Comparative Orthopaedics Day at Missouri Orthopaedic Institute held on April 5, 2019, was another outstanding event! We had record attendance for Dr. Mohit Bhandari's Littlejohn Family Keynote Lecture, entitled *Think Bigger: The New Paradigm of Evidence-Based Orthopaedics*. Dr. Bhandari's lecture was an incredibly authentic, inspiring, and entertaining challenge to be courageous in thinking bigger in orthopaedic research and in life. The Littlejohn Family Keynote Lecture was followed by a series of outstanding research presentations covering the areas of osteoarthritis, scoliosis, skeletal growth and maturation, regenerative orthopaedics, ACL, meniscus and outcomes assessments. Dr. & Mrs. Littlejohn were in attendance again this year, making the day extra special.

We also had a bit of a TLRO "homecoming" at the Comparative Orthopaedics Day event, as 5 of our PhD Alumni were in attendance with 3 presenting their work.



### Research Spotlight



Dr. Sumit Gupta is a pediatric orthopaedic surgeon who treats children with birth defects, traumatic injuries, and growth deformities. His research interests include developing clear guidelines and management of subungual exostosis—bony tumors on the tips of finger and toes. He has also published on rotationplasty, congenital limb deformity, and diagnosis of discoid meniscus in patients with achondroplasia. Dr. Gupta is currently leading the following studies at Mizzou: Antibiotics Usage in Pediatric Orthopaedic Percutaneous Surgery (APOPS); Phase 4, Open-Label, Single-Dose, Parallel-Group Study to Evaluate the Safety of Cefazolin in Pediatric Subjects; Post-operative Use of Opioid Analgesics in Pediatric Orthopaedic Patients.

### Last Quarter's "Top 5"

1. TLRO Team receives NIH-NIAMS R34 grant for more BioJoint clinical research
2. Dr. Kuroki receives the *2019 TLRO Making a Difference Award*
3. Six TLRO students graduate from Mizzou with honors
4. Three TLRO students receive *2019 Excellence in Research Awards*
5. TLRO graduate students, Jessee Kruse and Kamryn Chastain, receive Masters degrees

### Recent Pubs

1. Stoker AM, et al. Metabolic responses of osteochondral allografts to re-warming. *J Orthop Res* 2019
2. Lewis RA, et al. Knee ultrasonography to determine risk for noncontact injuries in collegiate football players. *J Knee Surg* 2019
3. Ahner CA, et al. Protein biomarkers in serum and urine for hip dysplasia in a canine model. *J Orthop Res* 2019
4. Thomas DM, et al. Biomechanical properties of bioabsorbable fixation for osteochondral shell allografts. *J Knee Surg* 2019
5. Smith PA, et al. Role of ALL and ITB for pivot shift and comparison of ALR vs modified Lemaire reconstructions. *Arthroscopy* 2019
6. Kuroki K, et al. Histologic assessment of ligament vascularity and synovitis in dogs with CCLD. *Am J Vet Res* 2019
7. Tarafder S, et al. Effect of dose and release rate of CTGF and TGFβ3 on avascular meniscal healing. *J Orthop Res* 2019
8. Keeney JA, et al. Incisional negative pressure wound therapy devices following hip and knee arthroplasty. *J Arthroplasty* 2019
9. Albuquerque JB, et al. Onlay reconstruction of the PCL: Comparison of unicortical and bicortical tibial fixation. *J Knee Surg* 2019
10. Bodendorfer BM, et al. Do neoprene sleeves and knee braces affect neuromuscular control and cutting. *Phys Ther Sport* 2019
11. Bridgeman JT, et al. Bioskills lab and its role in training the modern orthopaedic surgeon. *Green County Medical Society J* 2019
12. Boeyer ME, et al. Early maturity as the new normal: A century-long study of bone age. *Clin Orthop Rel Res* 2018